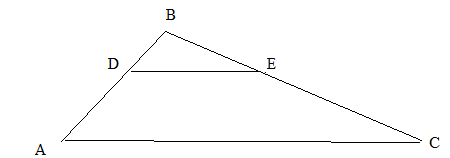
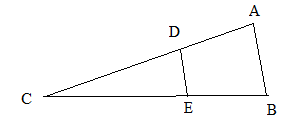
HW 2-9 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Show all work for full credit.

1) In the accompanying diagram, DE is parallel to AC, AC = 32, DE = 16 and AB = 20. What is the length of BD?

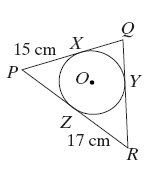


2) DE is parallel to AB. If CD = 12, CA = 20 and BE = 6, what is the length of CE?



3) Craig’s sailboat has two sails that are similar triangles. The larger sail has sides of 10 feet, 24 feet and 26 feet. If the shortest side of the smaller sail measures 6 feet, what is the perimeter of the smaller sail?

4) If QX = 10, what is the perimeter of Δ*PQR*?



5) Find the value of x.

